



## NATIONAL SCIENCE FOUNDATION

### ANNOUNCEMENT NUMBER S20030078-IPA DIVISION DIRECTOR, DIRECTORATE FOR COMPUTER AND INFORMATION SCIENCE AND ENGINEERING (CISE)

The National Science Foundation is seeking qualified candidates for the position of Division Director, Directorate for Computer and Information Science and Engineering (CISE). In addition to seeking candidates who are interested in an appointment as a Senior Executive Service career basis (S20030078-C) or limited term basis (S20030078-LTD), NSF is also inviting individuals who might be interested in an Intergovernmental Personnel Act (IPA) assignment to submit an application. A statement of duties of the position and qualification requirements is included below.

Initial assignments under the IPA mechanism may be made for a period of up to two years. Individuals eligible for an IPA assignment with a Federal agency include employees of State and local government agencies or institutions of higher education, Indian tribal governments, and other eligible organizations in instances where such assignments would be of mutual benefit to the organizations involved. The individual remains an employee of the home institution and cost-sharing arrangements are generally negotiated between NSF and the home institution. **Individuals interested in an IPA assignment should submit curriculum vitae or Federal application form and a letter referencing qualifications to the following address:**

**National Science Foundation  
Division of Human Resource Management  
Executive & Visiting Personnel Branch  
ATTN: S20030078-IPA  
4201 Wilson Boulevard, Room 315  
Arlington, VA 22230**

**The closing deadline for receipt of applications is September 8, 2003.**

**Applications may be transmitted electronically to [execsrch@nsf.gov](mailto:execsrch@nsf.gov), mailed or delivered to the following address:** National Science Foundation, Division of Human Resource Management, Executive Personnel, Room 315, ATTN: S20030078-IPA, 4201 Wilson Blvd., Arlington, VA 22230. The phone number for vacancy announcements coordinated by the Executive Personnel Staff is (703) 292-8755; hearing-impaired individuals should call TDD on 703-292-8044. Persons interested in the Senior Executive Service appointment options should request copies of announcements S20030078-C and S20030078-LTD for additional information and application instructions. Announcements may be accessed electronically under Vacancies on NSF's Homepage [www.nsf.gov/jobs](http://www.nsf.gov/jobs). Information on the NSF mission, structure, programs and operations may be found at [www.nsf.gov](http://www.nsf.gov). The National Science Foundation provides reasonable accommodations to applicants with disabilities on a case-by-case basis. If you need a reasonable accommodation for any part of the application and hiring process, please notify the point of contact located on this vacancy announcement.

**STATEMENT OF DUTIES:** Advanced computing-information-communications infrastructure (also known as cyberinfrastructure) projects supported by NSF's Directorate for Computer and Information Science and Engineering (CISE) have major national and international policy implications because of the pivotal role they play in advancing the Nation's science and engineering agenda. They are often unique and complex projects. Both scientifically and administratively they represent significant management challenges for NSF. They operate at the cutting edge of science and technology. Research and education activities enabled by these projects include the full spectrum of NSF-supported activities.

The incumbent serves as one of the Foundation's principal spokespersons in the area of cyberinfrastructure and as a member of the CISE Directorate leadership team. He/she directs division activities, which provide access to, and support of, advanced cyberinfrastructure in support of the national science and engineering research and education community.

The incumbent provides strategic leadership in the development and implementation of support for advanced cyberinfrastructure to meet the needs of the academic science and engineering research and education community. Implements, in a divisional context, overall strategic planning and policy setting; determines cyberinfrastructure funding requirements and prepares and justifies budget estimates; defines and balances program needs, actively working with relevant NSF personnel and other stakeholders to ensure that necessary research and education investments are being made to advance national cyberinfrastructure capabilities; oversees the evaluation of proposals and recommendations for awards and declinations; oversees the management and oversight of a complex portfolio of cyberinfrastructure projects; develops and applies criteria for evaluating the performance

of cyberinfrastructure projects supported; and represents NSF to relevant stakeholder groups. Fosters partnerships with other Divisions, Directorates, Federal agencies, science and engineering organizations, the academic community, and the international community.

## **QUALIFICATIONS REQUIREMENTS EXECUTIVE/MANAGERIAL**

### **Essential**

1. **Leading Change.** Demonstrated ability to develop and implement an organizational vision for cyberinfrastructure that integrates key national science and engineering goals, and that meets the advanced cyberinfrastructure needs of the academic science and engineering research and education community.
2. **Leading People.** Demonstrated ability to achieve organizational objectives by creatively managing and motivating staff. Includes the ability to promote quality through the effective use of performance standards and assessment. Includes leveraging diversity and other differences, promoting developmental opportunities, fostering commitment and team spirit, and constructively resolving conflicts.
3. **Results-Driven Leadership.** Demonstrated knowledge and ability in planning, prioritizing, and coordinating large, complex infrastructure projects. Includes the ability to provide project management oversight, to make timely and effective decisions, to produce results through strategic planning, the implementation and evaluation of programs and policies, and to balance complex and diverse program and project demands within available resources.
4. **Business Acumen.** Demonstrated ability to utilize human, financial, material, and information resources in a manner that instills public trust and accomplishes the organization's mission and to take advantage of new technologies to enhance the effectiveness of decision making. Includes demonstrated ability in recruiting and selecting staff, allocating financial resources, and managing budgetary processes.
5. **Building Coalitions/Communication.** Demonstrated ability to serve as a senior spokesperson for a major organization involved in the support of crosscutting and multidisciplinary cyberinfrastructure activities. Includes the ability to foster partnerships that support NSF's cyberinfrastructure plans, to coordinate organizational strategy and initiatives with other Federal organizations and academic and industrial organizations, both foreign and domestic, and to effectively communicate policy and strategic plans to the external community, including the public, the Congress, industry and scientific colleagues in other disciplines.

## **PROFESSIONAL/TECHNICAL**

### **Essential**

1. Ph.D. or equivalent professional experience or a combination of education and equivalent experience in computer and information sciences and engineering or a related computational science or engineering field.
2. Familiarity with Federal, academic and industrial research and infrastructure and initiatives focused on advanced computer-communications-information infrastructure.
3. Demonstrated knowledge and ability in planning, prioritizing, coordinating and managing large, complex infrastructure projects.
4. Skill in recognizing, developing and implementing approaches and programs which build on the expertise and knowledge of researchers and educators in several disciplines to develop solutions to important cross-cutting research and education problems.
5. Broad knowledge of the computer and communications industries and their underlying technology suppliers.
6. Demonstrated knowledge of relevant academic community and recognized professional standing in the science and engineering community as evidenced by publications and/or professional leadership and awards.

**NSF IS AN EQUAL OPPORTUNITY EMPLOYER COMMITTED TO EMPLOYING A HIGHLY  
QUALIFIED STAFF THAT REFLECTS THE DIVERSITY OF OUR NATION.**

NATIONAL SCIENCE FOUNDATION  
APPLICANT SURVEY

OMB No. 3145-0096  
Expiration: 7/31/2005

Vacancy Ann. #: \_\_\_\_\_ Position Status (temporary/permanent): \_\_\_\_\_

Position Title/Series/Grade: \_\_\_\_\_

INSTRUCTIONS

Your completion of this form will be appreciated. Submission of this Information is voluntary and it will have no effect on the processing of your application. The data collected will be used only for statistical purposes to ensure that agency personnel practices meet the requirements of Federal law. Pursuant to 5 CFR 1320.5(b), an agency may not conduct or sponsor, and a person is not required to respond to an information collection unless it displays a valid OMB control number. The OMB control number for this collection is 3145-0096. NSF estimates that each respondent should take about 3 minutes to complete this survey, including time to read the instructions. You may have comments regarding this burden estimate or any other aspect of this survey, including suggestions for reducing this burden. If so, please send them to NSF Reports Clearance Officer, Division of Administrative Services, NSF, 4201 Wilson Blvd., Arlington, VA. 22230.

PRIVACY ACT INFORMATION

GENERAL - This information is provided pursuant to Public Law 93-579 (Privacy Act of 1974), December 31, 1974, for individuals completing Federal records and forms that solicit personal information.

AUTHORITY - Section 7201 of title 5 of the U.S. Code and Section 2000e-16 of title 42 of the U.S. Code.

PURPOSE AND ROUTINE USES

The information is used for research and for a Federal Equal Opportunity Recruitment Program (FEORP) to help insure that agency personnel practices meet the requirements of Federal law. Address questions concerning this form and its uses to the Privacy Act Officer, National Science Foundation, Arlington, VA 22230.

1. Today's Date: \_\_\_\_\_ 2. Year of Birth: \_\_\_\_\_

3. How did you learn about the particular position for which you are applying? (Circle appropriate number.)

- |                                                                                         |                                                                           |
|-----------------------------------------------------------------------------------------|---------------------------------------------------------------------------|
| 01 - Newspaper (specify) _____                                                          | 10 - Federal, State or local job information center                       |
| 02 - Contact with NSF Personnel Office<br>(Agency Bulletin Board or other Announcement) | 11 - State vocational rehabilitation agency or<br>Veterans Administration |
| 03 - NSF-initiated personal contact                                                     | 12 - State employment office                                              |
| 04 - Science Magazine, or other professional journal or magazine<br>(specify) _____     | 13 - School or college counselor or other official                        |
| 05 - Affirmative Action Register                                                        | 14 - Private job Information service                                      |
| 06 - Attendance at conference, meeting or job fair<br>(specify) _____                   | 15 - Private employment service                                           |
| 07 - NSF recruitment at school or college                                               | 16 - Friend or relative working at NSF                                    |
| 08 - Colleague referral                                                                 | 17 - Friend or relative not working at NSF                                |
| 09 - NSF Bulletin                                                                       | 18 - NSF website                                                          |
|                                                                                         | 19 - Internet or other website                                            |
|                                                                                         | 20 - Other (specify) _____                                                |

4. Select the ethnic category with which you most closely identify:

- A. **Hispanic or Latino.** A person of Cuban, Mexican, Puerto Rican, South or Central American, or other Spanish culture or origin, regardless of race.
- B. **Not Hispanic or Latino.**

5. Select one or more racial category with which you most closely identify:

- A. **American Indian or Alaska Native.** A person having origins in any of the original peoples of North and South America (including Central America), and who maintains tribal affiliation or community attachment.
- B. **Asian.** A person having origins in any of the original peoples of the Far East, Southeast Asia, or the Indian subcontinent including, for example, Cambodia, China, India, Japan, Korea, Malaysia, Pakistan, the Philippine Islands, Thailand, and Vietnam.
- C. **Black or African American.** A person having origins in any of the black racial groups of Africa.
- D. **Native Hawaiian or Other Pacific Islander.** A person having origins in any of the original peoples of Hawaii, Guam, Samoa, or other Pacific Islands.
- E. **White.** A person having origins in any of the original peoples of Europe, the Middle East, or North Africa.

6. Sex (Circle the appropriate letter.) F - Female M - Male

7. Please provide Information on your disability status by circling the appropriate category below:

1. I do not have a disability; 2. Hearing impairment; 3. Vision impairment; 4. Missing extremities; 5. Partial paralysis;  
6. Complete paralysis; 7. Convulsive disorder; 8. Mental retardation; 9. Mental or emotional illness; 10. Severe distortion of limbs  
and/or spine; 11. I have a disability but it is not listed.

FOR AGENCY USE

Agency Code: \_\_\_\_\_

AN EQUAL EMPLOYMENT OPPORTUNITY EMPLOYER